**JAVA PRACTICAL FILE**



**Object Oriented**

**Programming and Java**

**(MCA-167)**

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Sem: MCA 1st

**Banarsidas Chandiwala Institute of Information Technology**

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**1. Write a Java program to print all odd numbers between 1 to 10.**

**CODE:**

import static java.lang.System.out;

public class Q1 {

public static void main(String args[]){

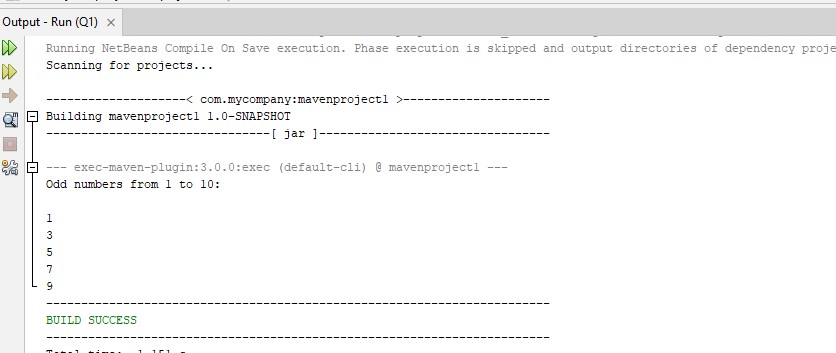
int i=1;

System.out.println("Odd numbers from 1 to 10:\n"); for(i=1;i<=10;i+=2) System.out.println(i);

}

}

**OUTPUT:**



**2. Write a Java program to find out factorial of a number through recursion.**

**CODE:**

import java.util.Scanner;

public class Q2 { static int factorial(int n) { if (n == 0) return 1; else return (n \* factorial(n - 1));

}

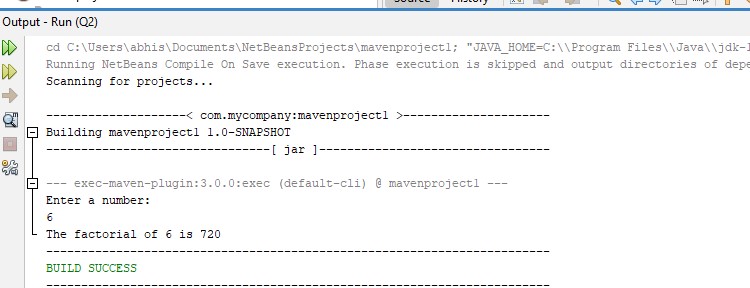
public static void main(String[] args) { Scanner sc = new Scanner(System.in); System.out.println("Enter a number: "); int num = sc.nextInt(); int result = factorial(num);

System.out.println("The factorial of " + num + " is " + result);

}

}

**OUTPUT:**



1. **Write a Java program to accept command line arguments & print them.**

**CODE:**

import static java.lang.System.out;

public class Q3 { public static void main(String[] args) { for (int i = 0; i < args.length; i++) {

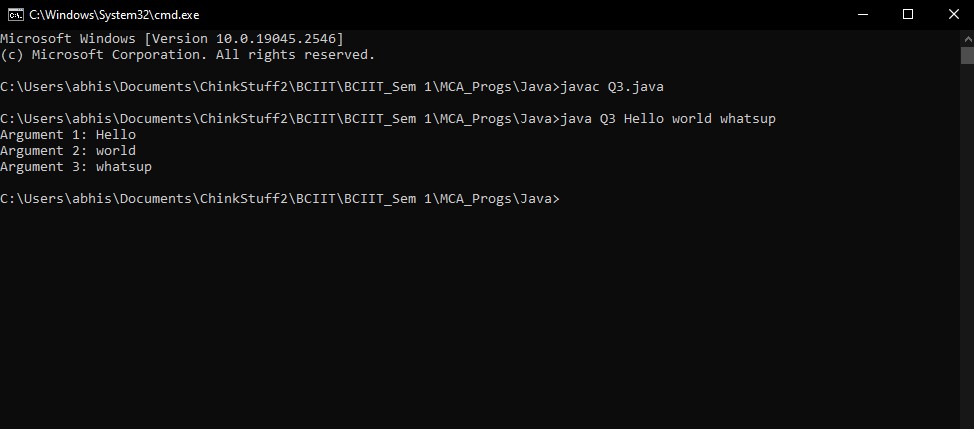
System.out.println("Argument " + (i + 1) + ": " + args[i]);

}

}

}

**OUTPUT:**



1. **Write a Java program to print fibonacci series.**

**CODE:**

import java.util.Scanner; public class Q4 {

public static void main(String[] args) { Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of terms: "); int n = sc.nextInt();

int a = 0, b = 1, c;

System.out.print(a + " " + b);

for (int i = 2; i < n; i++) { c = a + b;

System.out.print(" " + c); a = b; b = c;

}

}

}

**OUTPUT:**



**5. Write a Java program that creates a class accounts with following details:**

**CODE:**

Instance variables: ac\_no., name, ac\_name, balance

Methods: withdrawal(), deposit(), display().use constructors to initialize members.

import static java.lang.System.out;

class Accounts { private int ac\_no; private String name, ac\_name; private double balance;

public Accounts(int n, String nm, String ac\_nm, double bal) { ac\_no = n; name = nm; ac\_name = ac\_nm; balance = bal;

out.println("account created!");

}

public void deposit(double amount) { balance += amount; out.println("amount deposited.\ntotal balance is:" + balance);

}

public void withdrawal(double amount) {

balance -= amount; out.println("amount withdrawn.\ntotal balance is:" + balance);

}

public void display() { out.printf("amount number: %d\nname: %s\naccount name: %s\ntotal balance: %f\n", ac\_no, name, ac\_name, balance);

}

}

class Q5 {

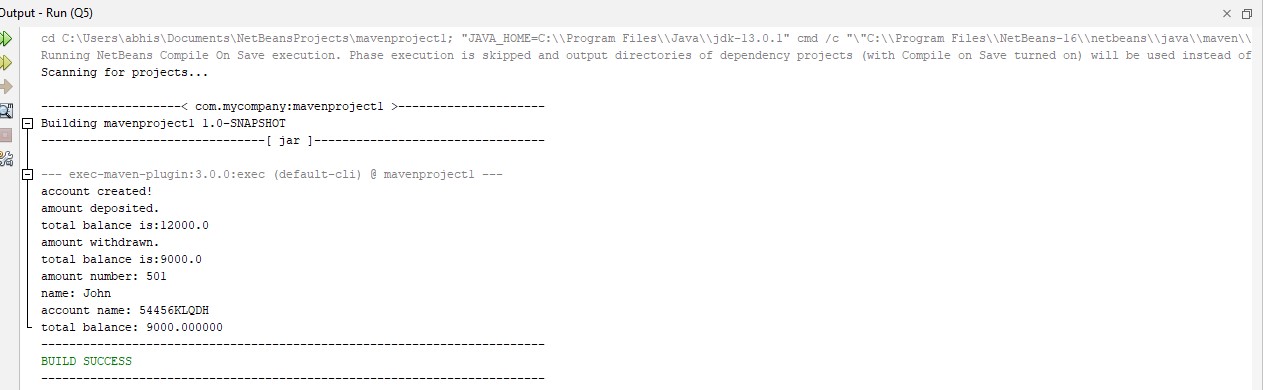
public static void main(String[] args) {

Accounts ac = new Accounts(501, "John", "54456KLQDH", 10000.0); ac.deposit(2000.0); ac.withdrawal(3000.0); ac.display();

}

}

**OUTPUT:**



**6. Write a Java program to implement constructor overloading.**

**CODE:**

import static java.lang.System.out;

class Box { double width, height, depth;

Box() { width = height = depth = -1;

}

Box(double len) { width = height = depth = len;

}

Box(double w, double h, double d) { width = w; height = h; depth = d;

}

double volume() { return width \* height \* depth;

}

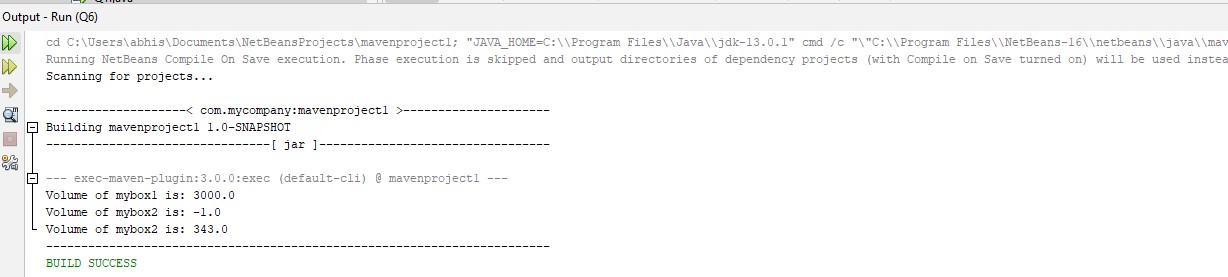
}

class Q6 { public static void main(String[] args) { Box mybox1 = new Box(10, 20, 15), mybox2 = new Box(), mybox3 = new Box(7); double vol; vol = mybox1.volume(); out.println("Volume of mybox1 is: " + vol); vol = mybox2.volume(); out.println("Volume of mybox2 is: " + vol); vol = mybox3.volume(); out.println("Volume of mybox2 is: " + vol);

}

}

**OUTPUT:**



**7. Write a Java program to count the no. of objects created in a program.**

**CODE:**

class Q7 { static int count = 0;

public Q7() { count++;

}

public static void main(String[] args) {

Q7 object1 = new Q7();

Q7 object2 = new Q7();

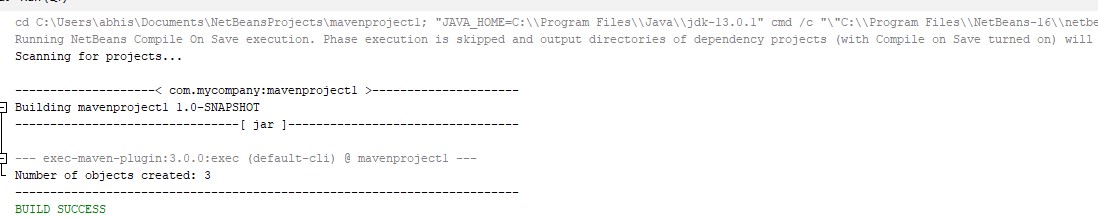
Q7 object3 = new Q7();

System.out.println("Number of objects created: " + count);

}

}

**OUTPUT:**



**8. .Write a Java program to implement method over ridding & method overloading.**

**CODE:**

package com.mycompany.mavenproject1; class Shape { void area() {

System.out.println("Shape area calculation");

}

}

class Rectangle extends Shape { int length, width;

Rectangle(int length, int width) { this.length = length; this.width = width;

}

@Override void area() {

System.out.println("Rectangle area: " + length \* width);

}

}

class Circle extends Shape { int radius;

Circle(int radius) { this.radius = radius; }

@Override void area() {

System.out.println("Circle area: " + Math.PI \* radius \* radius);

}

}

class Q8 { static void displayArea(Shape shape) { shape.area();

}

static int add(int a, int b) { return a + b;

}

static int add(int a, int b, int c) { return a + b + c;

}

public static void main(String[] args) { Rectangle rectangle = new Rectangle(10, 20);

Circle circle = new Circle(5);

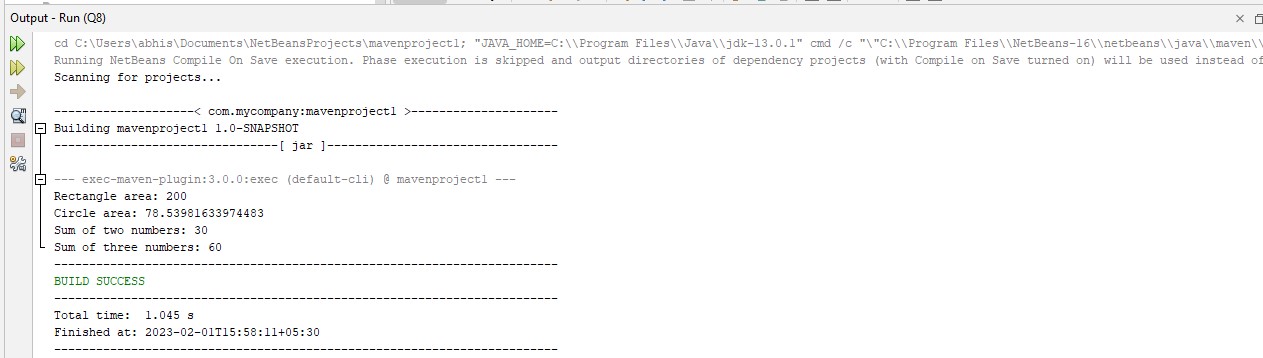
displayArea(rectangle); displayArea(circle);

System.out.println("Sum of two numbers: " + add(10, 20));

System.out.println("Sum of three numbers: " + add(10, 20, 30)); }

}

**OUTPUT:**



In this example, the Shape class is the superclass, and the Rectangle and Circle classes are subclasses that inherit from Shape and override its area method to provide their own implementation. The Q8 class contains two methods displayArea and add to demonstrate method overloading, where add is overloaded with two different implementations based on the number of arguments passed to it. The main method creates objects of Rectangle and Circle and calls their area method through the displayArea method, and also demonstrates method overloading by calling the add method with different arguments.

**9**. **Create a class box having height, width, depth as the instance variables & calculate its volume. Implement constructor overloading in it. Create a subclass named box\_new that has weight as an instance variable. Use super in the box\_new class to initialize members of the base class.**

**CODE:**

package com.mycompany.mavenproject1;

class Box { double height, width, depth;

Box(double height, double width, double depth) { this.height = height; this.width = width; this.depth = depth;

}

Box(double height, double width) { this(height, width, 1.0);

}

double volume() { return height \* width \* depth;

}

}

class Box\_new extends Box { double weight;

Box\_new(double height, double width, double depth, double weight) {

super(height, width, depth); this.weight = weight;

}

Box\_new(double height, double width, double weight) { super(height, width); this.weight = weight;

}

}

class Q9 {

public static void main(String[] args) {

Box\_new box1 = new Box\_new(10, 20, 30, 40);

Box\_new box2 = new Box\_new(15, 25, 35);

System.out.println("Box1 volume: " + box1.volume());

System.out.println("Box1 weight: " + box1.weight);

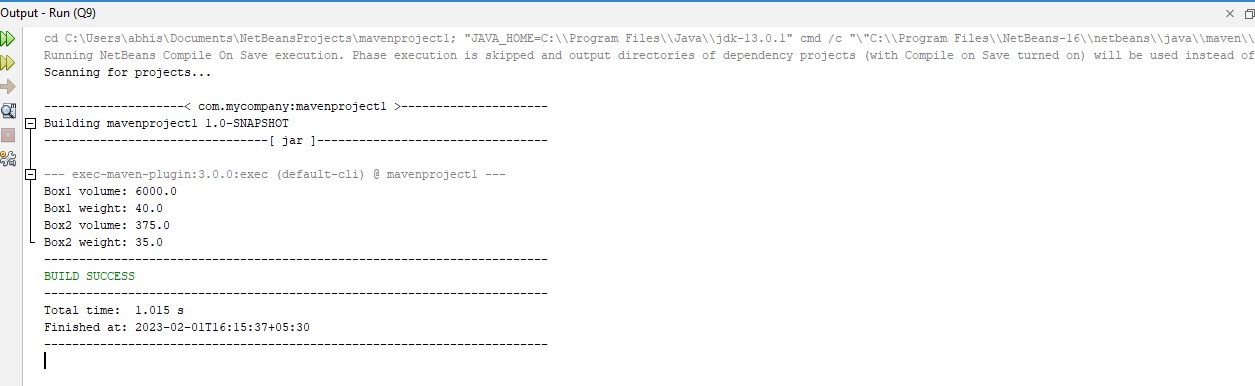
System.out.println("Box2 volume: " + box2.volume());

System.out.println("Box2 weight: " + box2.weight);

}

}

**OUTPUT:**



**10.Write a Java program to implement run time polymorphism.**

**CODE:**

class Shape { void draw() {

System.out.println("Drawing Shape");

}

}

class Rectangle extends Shape {

@Override

void draw() {

System.out.println("Drawing Rectangle");

}

}

class Circle extends Shape {

@Override

void draw() {

System.out.println("Drawing Circle");

}

}

public class Q10 { public static void main(String[] args) { Shape s; s = new Rectangle();

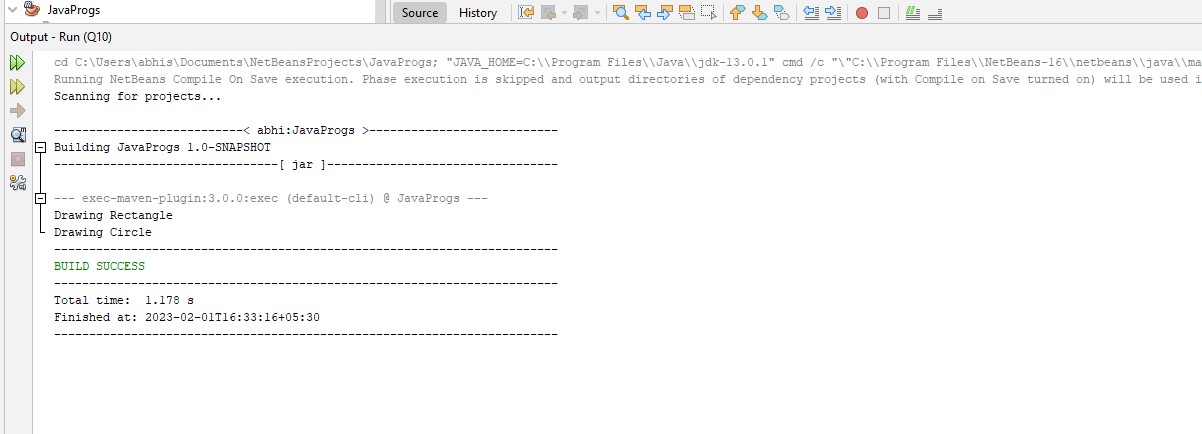
s.draw(); s = new Circle();

s.draw();

}

}

**OUTPUT:**



This program demonstrates run-time polymorphism through the use of a base class Shape and two subclasses, Rectangle and Circle, which both extend Shape and provide their own implementation of the draw() method. In the main method of Q10, we create instances of both Rectangle and Circle and assign them to a reference of the base class Shape. This allows us to call the draw() method on the objects, with the correct implementation being called at runtime based on the actual type of the object.

**11.Write a Java program to implement interface. Create an interface named shape having area () & perimeter () as its methods. Create three classes circle, rectangle & square that implement this interface.**

**CODE:**

interface Shape { double area(); double perimeter();

}

class Circle implements Shape { double radius;

Circle(double radius) { this.radius = radius;

}

@Override public double area() { return Math.PI \* radius \* radius;

}

@Override public double perimeter() { return 2 \* Math.PI \* radius;

}

}

class Rectangle implements Shape { double width;

double height;

Rectangle(double width, double height) { this.width = width; this.height = height;

}

@Override public double area() { return width \* height;

}

@Override public double perimeter() { return 2 \* (width + height);

}

}

class Square implements Shape { double side;

Square(double side) { this.side = side;

}

@Override public double area() { return side \* side;

}

@Override public double perimeter() { return 4 \* side;

}

}

public class Q11 {

public static void main(String[] args) {

Shape shape1 = new Circle(10);

System.out.println("Area of Circle: " + shape1.area());

System.out.println("Perimeter of Circle: " + shape1.perimeter());

Shape shape2 = new Rectangle(5, 10);

System.out.println("Area of Rectangle: " + shape2.area());

System.out.println("Perimeter of Rectangle: " + shape2.perimeter());

Shape shape3 = new Square(5);

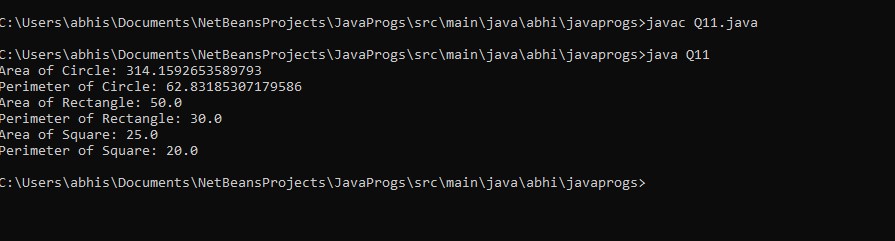
System.out.println("Area of Square: " + shape3.area());

System.out.println("Perimeter of Square: " + shape3.perimeter());

}

}

**OUTPUT:**



In this example, we define an interface **Shape** that includes two methods, **area()** and **perimeter()**. The **Circle**, **Rectangle**, and **Square** classes all implement the **Shape** interface and provide their own implementation of the **area()** and **perimeter()** methods. In the main method of **Q11**, we create instances of each of the classes and assign them to references of the **Shape** type. This allows us to call the **area()** and **perimeter()** methods on the objects, with the correct implementation being called at runtime based on the actual type of the object.

**12.Write a Java program to show multiple inheritance.**

**CODE:**

interface Shape { double area();

}

interface Printable { void print();

}

class Circle implements Shape, Printable { double radius;

Circle(double radius) { this.radius = radius;

}

@Override public double area() { return Math.PI \* radius \* radius;

}

@Override public void print() {

System.out.println("Circle: " + area());

}

}

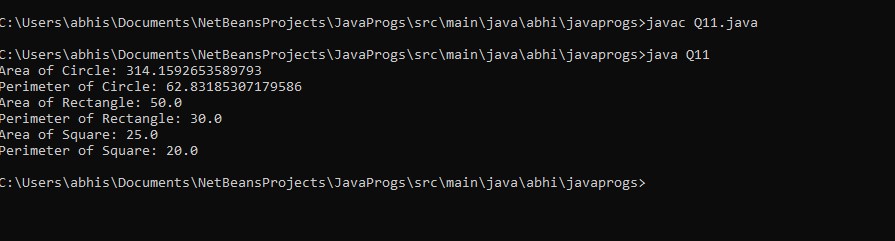
public class Q12 {

public static void main(String[] args) { Circle c = new Circle(10); c.print();

}

}

**OUTPUT:**



Java does not support multiple inheritance, meaning a class cannot inherit from multiple classes. However, it is possible to achieve similar functionality through the use of interfaces. An interface can extend multiple interfaces, which allows a class to implement multiple interfaces.

In this example, we define two interfaces, **Shape** and **Printable**, that include methods **area()** and **print()**, respectively. The **Circle** class implements both **Shape** and **Printable**, which allows it to inherit the methods from both interfaces. In the main method of **Q12**, we create an instance of the **Circle** class and call its **print()** method

**13. Create a user defined exception named “nomatchexception” that is fired when the string entered by the user is not “India”.**

**CODE:**

import java.util.Scanner;

class NoMatchException extends Exception { public NoMatchException(String message) { super(message);

}

}

public class Q13 { public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a string: "); String input = sc.nextLine();

try {

if (!input.equals("India")) {

throw new NoMatchException("Input does not match");

}

} catch (NoMatchException e) {

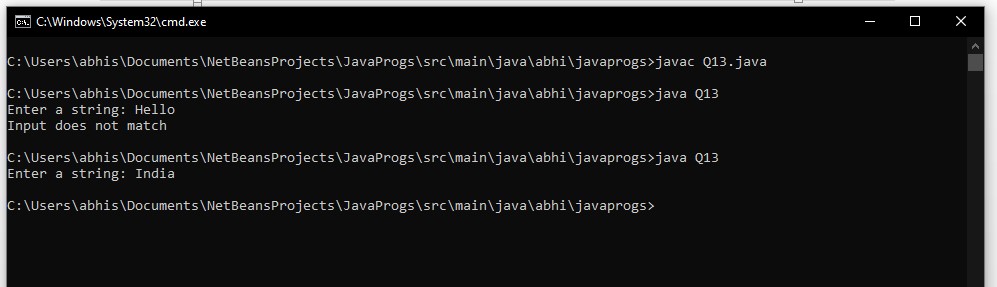
System.out.println(e.getMessage());

}

}

}

**OUTPUT:**



**14.Write a Java program to show even & odd numbers by thread.**

**CODE:**

class EvenThread implements Runnable {

@Override public void run() {

for (int i = 2; i <= 12; i += 2) {

System.out.println("Even: " + i);

}

}

}

class OddThread implements Runnable {

@Override public void run() {

for (int i = 1; i <= 12; i += 2) {

System.out.println("Odd: " + i);

}

}

}

public class Q14 {

public static void main(String[] args) {

Thread evenThread = new Thread(new EvenThread());

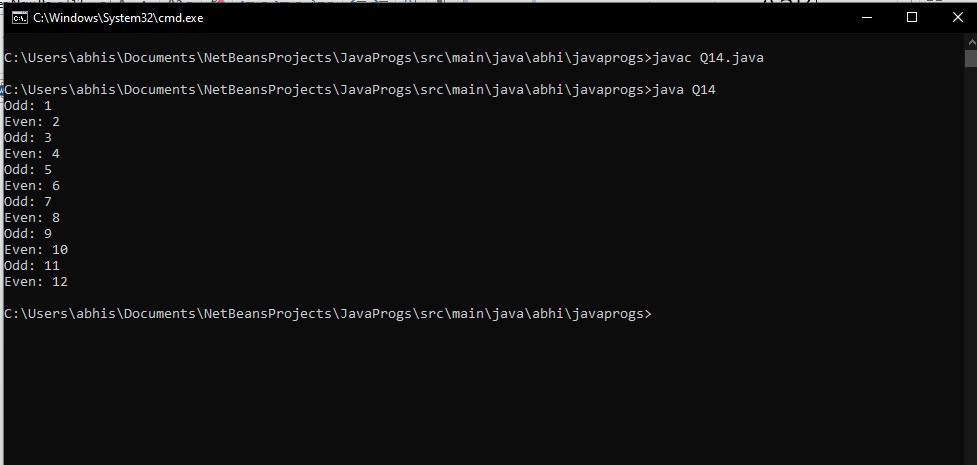
Thread oddThread = new Thread(new OddThread());

evenThread.start(); oddThread.start();

}

}

**OUTPUT:**



In this program, two separate threads are created to display even and odd numbers. The **run** method of each thread class contains a loop to print even and odd numbers respectively. The **start** method of each thread is called to start the execution of each thread.

**15**. **Write a Java program to implement vector. [use:**

**addelement(),elementat().removeelement(),size().]**

**CODE:**

import java.util.ArrayList;

class Vector<T> { private ArrayList<T> list;

public Vector() { list = new ArrayList<T>();

}

public void addElement(T element) {

list.add(element);

}

public T elementAt(int index) { return list.get(index);

}

public void removeElement(int index) {

list.remove(index);

}

public int size() { return list.size();

}

}

public class Q15 { public static void main(String[] args) {

Vector<Integer> vec = new Vector<Integer>(); vec.addElement(1); vec.addElement(2); vec.addElement(3); vec.addElement(4);

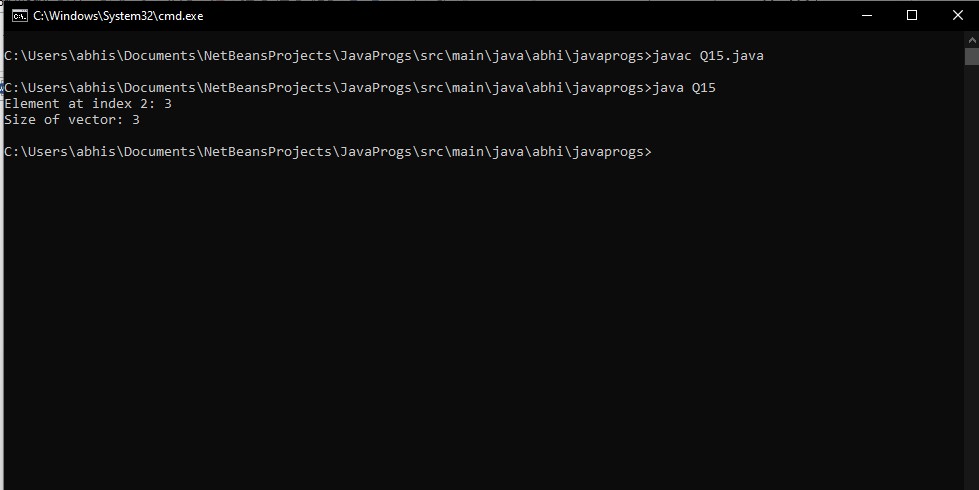
System.out.println("Element at index 2: " + vec.elementAt(2)); vec.removeElement(2);

System.out.println("Size of vector: " + vec.size());

}

}

**OUTPUT:**



In this program, the Vector class is implemented using an ArrayList to store the elements. The methods **addElement**, **elementAt**, **removeElement**, and **size** are implemented to add an element, get an element at a specific index, remove an element at a specific index, and get the size of the vector, respectively. The main class **Q15** demonstrates how to use the Vector class

**16.Write a Java program to iterate through all elements in a array list , and retrieve an element (at a specified index)**

**CODE:**

import java.util.ArrayList; import java.util.Scanner;

public class Q16 { public static void main(String[] args) {

ArrayList<String> list = new ArrayList<String>(); list.add("apple"); list.add("banana"); list.add("cherry"); list.add("date");

System.out.println("Elements in the ArrayList: ");

for (String s : list) {

System.out.println(s);

}

Scanner sc = new Scanner(System.in);

System.out.print("Enter the index of the element to retrieve: ");

int index = sc.nextInt(); if (index >= 0 && index < list.size()) {

System.out.println("Element at index " + index + ": " + list.get(index));

} else {

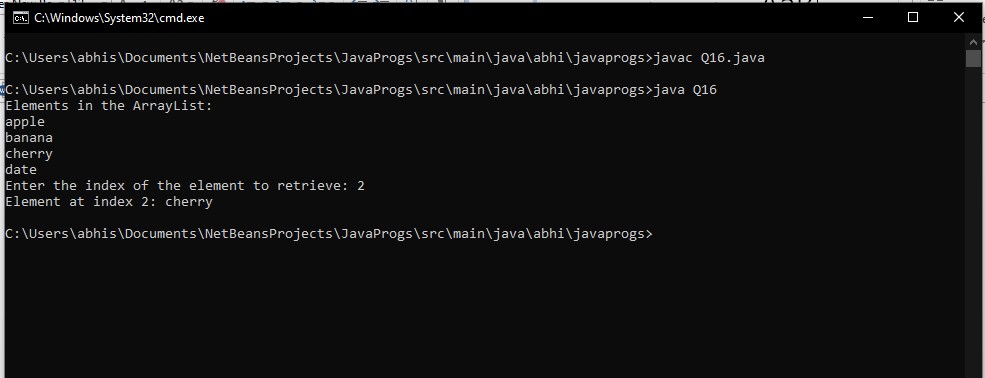
System.out.println("Invalid index");

}

}

}

**OUTPUT:**



In this program, an ArrayList is created to store a list of elements. A for-each loop is used to iterate through all elements in the ArrayList and print them. The user is prompted to enter the index of an element to retrieve using a Scanner. The element at the specified index is retrieved using the **get** method of the ArrayList and printed. If the specified index is invalid, an error message is printed.

**17.Write a Java program to demonstrate the use of equals(), trim() ,length() , substring(), compareto() of string class.**

**CODE:**

public class Q17 { public static void main(String[] args) {

String s1 = "Hello World";

String s2 = " Hello World ";

String s3 = "Goodbye";

System.out.println("s1 = " + s1);

System.out.println("s2 = " + s2); System.out.println("s3 = " + s3);

System.out.println("s1.equals(s2) = " + s1.equals(s2));

System.out.println("s1.trim().equals(s2.trim()) = " + s1.trim().equals(s2.trim()));

System.out.println("s1.length() = " + s1.length());

System.out.println("s2.trim().length() = " + s2.trim().length());

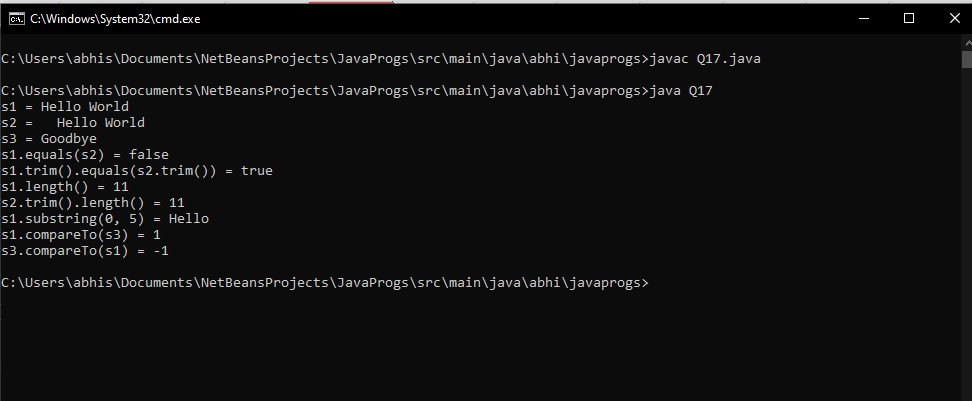
System.out.println("s1.substring(0, 5) = " + s1.substring(0, 5));

System.out.println("s1.compareTo(s3) = " + s1.compareTo(s3)); System.out.println("s3.compareTo(s1) = " + s3.compareTo(s1));

}

}

**OUTPUT:**



In this program, three **String** objects are created with different values. The **equals()** method is used to compare two strings for equality. The **trim()** method is used to remove leading and trailing whitespace from a string. The **length()** method is used to get the length of a string. The **substring()** method is used to get a part of a string. The **compareTo()** method is used to compare two strings lexicographically.

**18.Write a Java program to demonstrate the use of equals() and == in Java.**

**CODE:**

public class Q18 { public static void main(String[] args) {

String s1 = "Hello";

String s2 = "Hello";

String s3 = new String("Hello");

System.out.println("s1 == s2: " + (s1 == s2));

System.out.println("s1.equals(s2): " + s1.equals(s2));

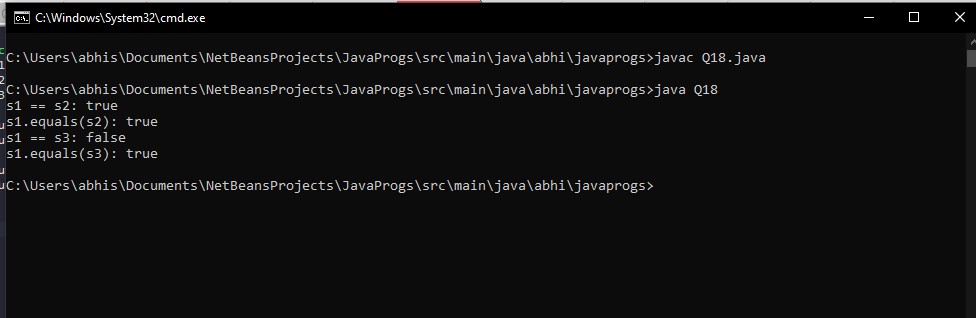
System.out.println("s1 == s3: " + (s1 == s3));

System.out.println("s1.equals(s3): " + s1.equals(s3));

}

}

**OUTPUT:**



**19. Write a Java program to check a word contains the character 'g' in a given string.**

**CODE:**

import java.util.Scanner;

public class Q19 { public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter a word: "); String word = input.nextLine(); if (word.contains("g")) {

System.out.println("The word contains the character 'g'.");

} else {

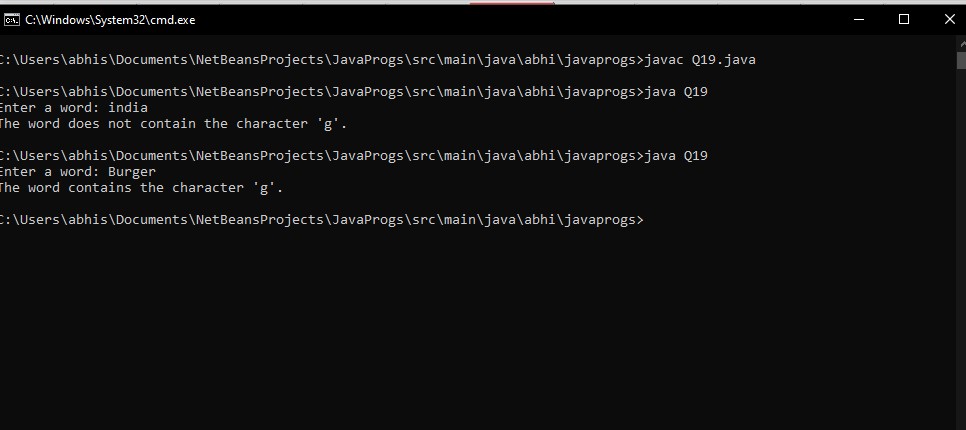
System.out.println("The word does not contain the character 'g'.");

}

}

}

**OUTPUT:**



In this program, the **Scanner** class is used to get input from the user. The user is prompted to enter a word. The **contains()** method of the **String** class is used to check if the word contains the character 'g'. If the word contains the character 'g', a message is printed indicating that the word contains the character 'g'. If the word does not contain the character 'g', a message is printed indicating that the word does not contain the character 'g'.

**20. Write a java program to create a folder named “java.docx” in which you have to make a file as abc.java and other 3 text files as,total\_char, total\_lines and total\_words. Read the data from the abc.java file and write the values to the 3 files respectively as per the name . eg: write the total no of words in the abc.java file in total\_words.txt.**

**CODE:**

import java.io.\*;

public class Q20 { public static void main(String[] args) { File javaDocx = new File("java.docx"); javaDocx.mkdir();

File abcJava = new File(javaDocx, "abc.java");

File totalChar = new File(javaDocx, "total\_char.txt");

File totalLines = new File(javaDocx, "total\_lines.txt");

File totalWords = new File(javaDocx, "total\_words.txt");

try {

abcJava.createNewFile(); totalChar.createNewFile(); totalLines.createNewFile(); totalWords.createNewFile();

BufferedReader reader = new BufferedReader(new FileReader(abcJava));

BufferedWriter charWriter = new BufferedWriter(new FileWriter(totalChar));

BufferedWriter lineWriter = new BufferedWriter(new FileWriter(totalLines));

BufferedWriter wordWriter = new BufferedWriter(new FileWriter(totalWords));

int charCount = 0; int lineCount = 0; int wordCount = 0;

String line;

while ((line = reader.readLine()) != null) { lineCount++; charCount += line.length(); String[] words = line.split(" ");

wordCount += words.length;

}

charWriter.write("Total characters: " + charCount); lineWriter.write("Total lines: " + lineCount); wordWriter.write("Total words: " + wordCount);

reader.close(); charWriter.close(); lineWriter.close(); wordWriter.close(); } catch (IOException e) {

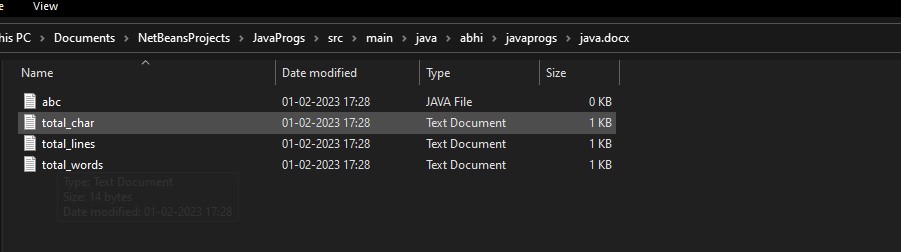
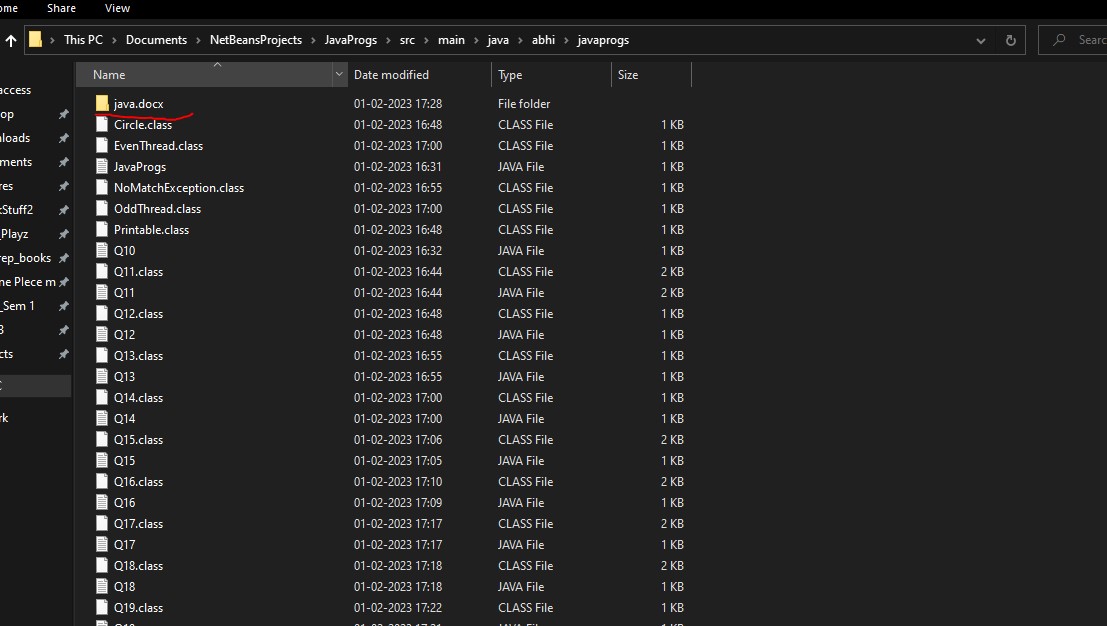
e.printStackTrace();

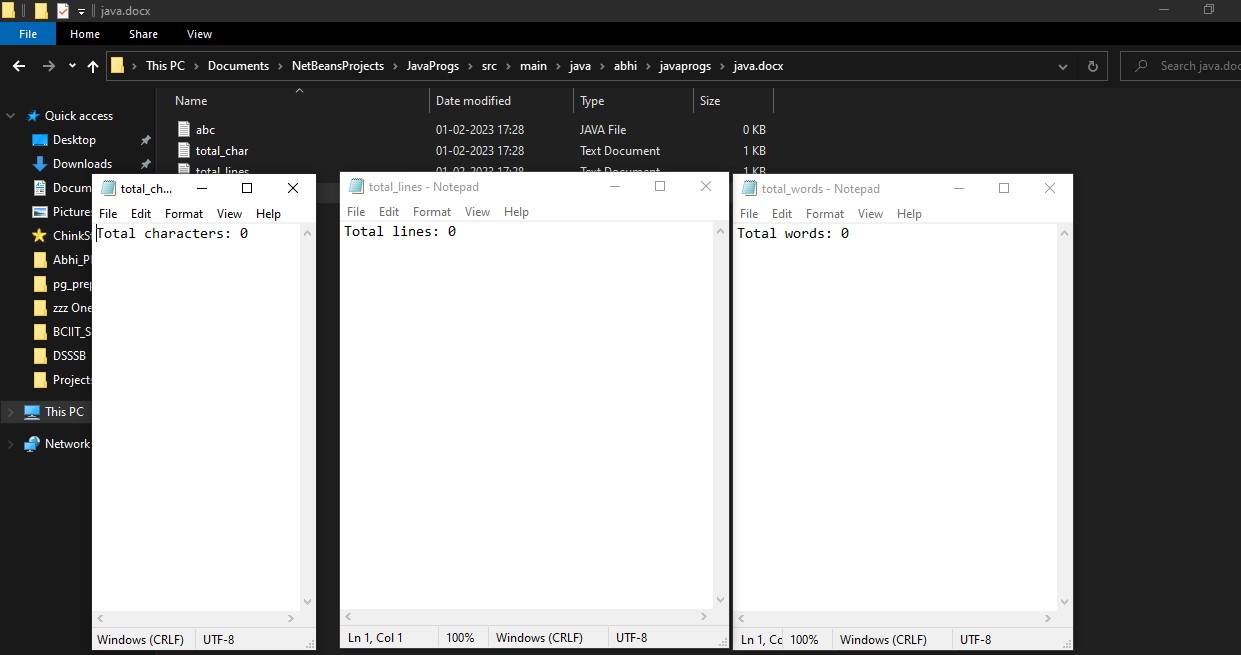
}

}

}

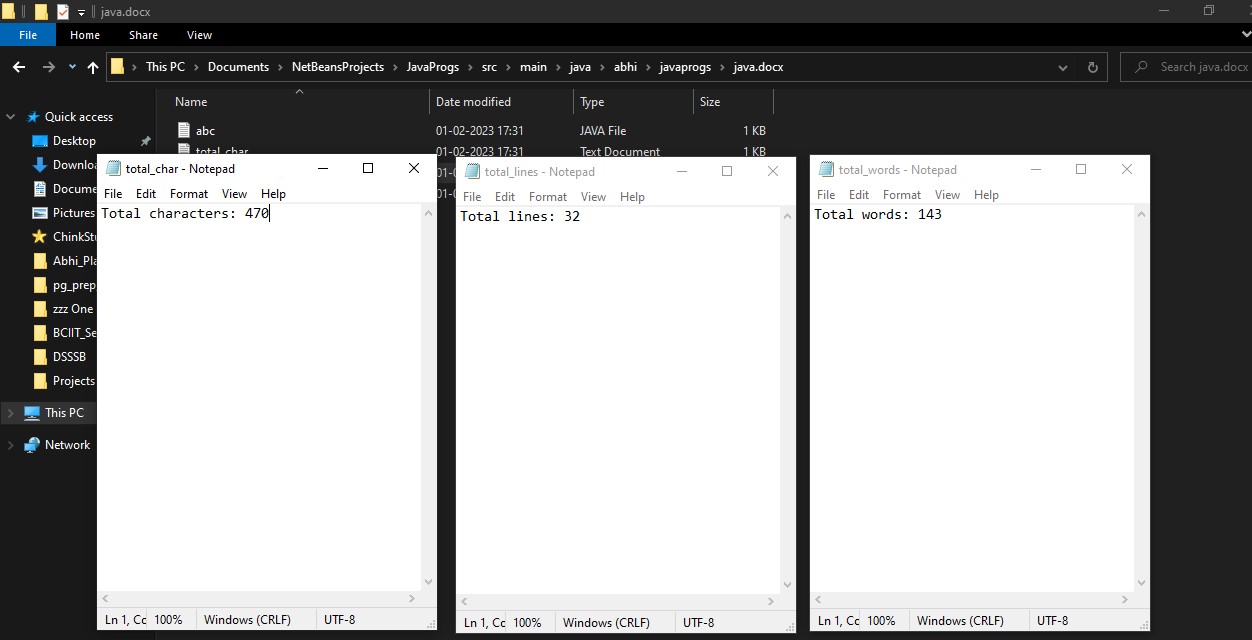
**OUTPUT:**





**Now, filling abc.java with sample contents from a previous program:**





In this program, the **File** class is used to create the folder **java.docx** and the four files. The **BufferedReader** and **BufferedWriter** classes are used to read and write data to the files. The program keeps track of the total number of characters, lines, and words in the **abc.java** file. The values are written to the **total\_char.txt**, **total\_lines.txt**, and **total\_words.txt** files respectively. Note that the contents of the **abc.java** file are assumed to be in the form of a string. The program assumes that there is at least one line of text in the file.

**21.write a java program to get a websites detail such as its Ip address, port number, protocols etc.**

**CODE:**

import java.net.\*; import java.io.\*;

public class Q21 { public static void main(String[] args) {

try {

URL url = new URL("https://www.google.com");

URLConnection conn = url.openConnection();

InetAddress address = InetAddress.getByName(url.getHost()); String ip = address.getHostAddress();

int port = url.getDefaultPort();

String protocol = url.getProtocol();

System.out.println("IP address: " + ip);

System.out.println("Port: " + port);

System.out.println("Protocol: " + protocol);

} catch (MalformedURLException e) {

System.out.println("Invalid URL");

} catch (UnknownHostException e) {

System.out.println("Unknown host");

} catch (IOException e) {

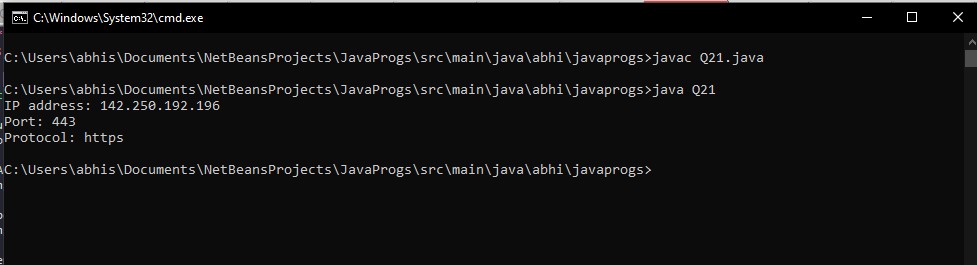
System.out.println("IOException");

}

}

}

**OUTPUT:**



In this program, the **URL** class is used to represent the website, and the **URLConnection** class is used to open a connection to the website. The **InetAddress** class is used to retrieve the IP address of the website, and the **getHostAddress** method is used to retrieve the IP address as a string. The **getDefaultPort** method is used to retrieve the port number, and the **getProtocol** method is used to retrieve the protocol used by the website.

**22. Write a java program to implement anonymous class.**

**CODE:**

interface HelloWorld {

void greet();

void greetSomeone(String someone);

}

public class Q22 { public void sayHello() {

class EnglishGreeting implements HelloWorld { String name = "world"; public void greet() { greetSomeone("world");

}

public void greetSomeone(String someone) { name = someone;

System.out.println("Hello " + name);

}

}

HelloWorld englishGreeting = new EnglishGreeting();

HelloWorld frenchGreeting = new HelloWorld() { String name = "Bonjour"; public void greet() { greetSomeone("Bonjour");

}

public void greetSomeone(String someone) { name = someone;

System.out.println("Salut " + name);

}

};

englishGreeting.greet(); frenchGreeting.greetSomeone("Fred");

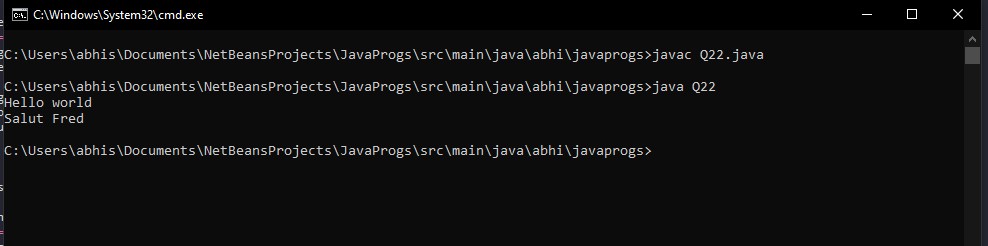
}

public static void main(String... args) { Q22 myApp = new Q22(); myApp.sayHello();

}

}

**OUTPUT:**



In this program, an interface **HelloWorld** is defined with two methods **greet** and **greetSomeone**.

The main class **Q22** implements a method **sayHello** that creates two instances of **HelloWorld**. The first instance is a regular inner class named **EnglishGreeting**, while the second instance is an anonymous class. Both classes implement the **HelloWorld** interface and override the **greet** and **greetSomeone** methods. The **main** method creates an instance of the **Q22** class and calls the **sayHello** method, which in turn creates the instances of the **HelloWorld** interface and calls the **greet** and **greetSomeone** methods on each instance.

**23. Write a java program to implement lambda expressions.**

**CODE:**

interface MathOperation {

int operation(int a, int b);

}

public class Q23 { public static void main(String[] args) {

MathOperation addition = (a, b) -> a + b;

MathOperation subtraction = (int a, int b) -> a - b;

MathOperation multiplication = (int a, int b) -> { return a \* b; };

MathOperation division = (a, b) -> a / b;

System.out.println("10 + 5 = " + operate(10, 5, addition));

System.out.println("10 - 5 = " + operate(10, 5, subtraction));

System.out.println("10 x 5 = " + operate(10, 5, multiplication));

System.out.println("10 / 5 = " + operate(10, 5, division));

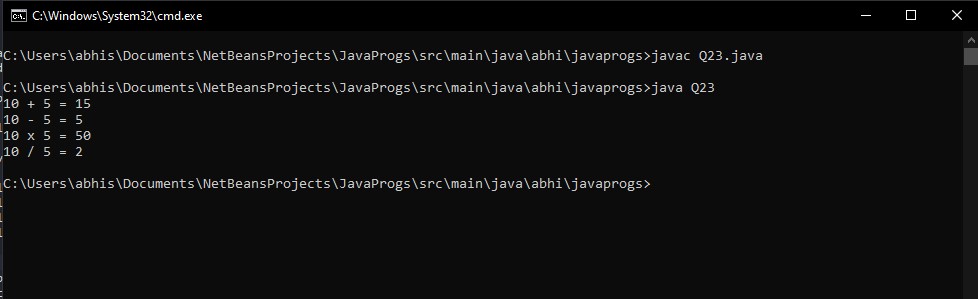
}

private static int operate(int a, int b, MathOperation mathOperation) { return mathOperation.operation(a, b);

}

}

**OUTPUT:**



In this program, an interface **MathOperation** is defined with a single method **operation**. The main class **Q23** implements a method **operate** that takes two **int** values and an instance of **MathOperation** as arguments, and returns the result of the **operation** method. The **main** method defines four instances of **MathOperation** using lambda expressions. Each lambda expression defines a different mathematical operation (addition, subtraction, multiplication, division). The **main** method then calls the **operate** method for each **MathOperation** instance and prints the results.

**24. Write a java problem to show java database connectivity.**

**CODE:**

import java.sql.\*; class Q24

{

public static void main(String[] args)

{

Connection connection = null;

String query;

ResultSet result; try

{

Class.forName("com.mysql.cj.jdbc.Driver"); connection = DriverManager.getConnection("jdbc:mysql://localhost:3308/",

"12345", "12345");

Statement stmt = connection.createStatement(); query = "CREATE DATABASE java\_database"; stmt.executeUpdate(query);

System.out.println("Database Created Successfully!!"); connection.close();

}

catch (Exception exception)

{

System.out.println(exception);

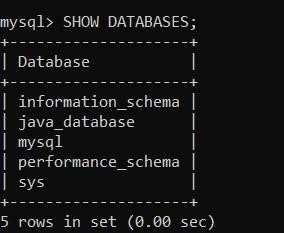
}

}

}

**OUTPUT:**





**QUESTION 25: Write a Java program in Java to insert, update, delete & select records.**

**CODE:**

import java.sql.\*;

class Program37

{

public static void main(String[] args)

{

Connection connection = null;

String query;

ResultSet result; try

{

Class.forName("com.mysql.cj.jdbc.Driver"); connection =

DriverManager.getConnection("jdbc:mysql://localhost:3308/java\_database","12345", "12345"); Statement stmt = connection.createStatement();

query = "INSERT INTO Recipies(recipe\_id, recipe\_name)"

+ " VALUES"

+ "(6,\"Momos\"), "

+ "(7,\"Spring Roll\"), "

+ "(8,\"Burger\"), "

+ "(9,\"Pizza\"), "

+ "(10,\"Garlic Bread\"); ";

stmt.executeUpdate(query); System.out.println("Inserted records into the table...");

query = "SELECT \* FROM Recipies;"; result = stmt.executeQuery(query); while(result.next()){

System.out.print("Recipie ID: " + result.getInt("recipe\_id"));

System.out.print("Recipie Name: " + result.getString("recipe\_name"));

System.out.println("\n");

}

query = "UPDATE Recipies " +

"SET recipe\_name = 'My Recipie' WHERE recipe\_id = 4"; stmt.executeUpdate(query);

System.out.println("Record Successfully Updated!!!!\n"); query = "SELECT \* FROM Recipies;"; result = stmt.executeQuery(query);

while(result.next()){

System.out.print("Recipie ID: " + result.getInt("recipe\_id"));

System.out.print("Recipie Name: " + result.getString("recipe\_name")); System.out.println("\n");

}

query = "DELETE FROM Recipies where recipe\_id = 3"; stmt.executeUpdate(query);

System.out.println("Record Successfully Deleted!!!!\n"); query = "SELECT \* FROM Recipies;"; result = stmt.executeQuery(query); while(result.next()){

System.out.print("Recipie ID: " + result.getInt("recipe\_id"));

System.out.print("|Recipie Name: " + result.getString("recipe\_name")); System.out.println("\n"); } connection.close();

} catch (Exception exception)

{

System.out.println(exception);

}

}

}

**OUTPUT**:



Abhishek Tyagi, MCA sem 1

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